(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 30 June 2005 (30.06.2005)

PCT

English

(10) International Publication Number WO 2005/058949 A1

(51) International Patent Classification⁷: 17/00, G01N 33/68

C07K 14/46,

(21) International Application Number:

PCT/SG2004/000417

(22) International Filing Date:

(26) Publication Language:

17 December 2004 (17.12.2004)

(25) Filing Language:

English

(30) Priority Data:

60/530,608 19 December 2003 (19.12.2003) US

(71) Applicant (for all designated States except US): AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH [SG/SG]; 20 Biopolis Way, #07-01 Centros, Singapore 138668 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TSAI, Heng Hang [SG/SG]; Block 222, Loyang Ave, #01-03, Loyang Valley, Singapore 509068 (SG). LEUNG, Hon-chiu Eastwood [US/SG]; 66 Chun Tin Road, Singapore 599642 (SG).

(74) Agent: YUSARN AUDREY & PARTNERS; 190 Middle Road, #12-04, Singapore 188979 (SG).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

2005/058949 A1

(54) Title: PROTEIN SEPARATION DEVICE

(57) Abstract: The invention provides a protein separation device comprising a chaperone protein immobilised on a substrate. In one embodiment, the chaperone protein is an Hsp60 chaperone, preferably a group one chaperone, preferably GroEL. The invention also provides a method for isolating a protein from a biological sample using a protein separation device of the invention.